ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
Bruhat Bengaluru Mahanagara Palike

Name of Work: Construction of CC drains and Development works in ward no 01 & 02 of Yelahanka Sub Division

COMBINED BOQ

Sl No.	Name of Work	Estimate Cost, Lakh Rs
1	Construction of CC drains and Development works in ward no 01	300.00
2	Construction of CC drains and Development works in ward no 02	300.00
	Total Cost of the Project, Lakh Rs	600.00

Estimated Cost
Rs. 600.00 Lakh

Office of the
Executive Engineer
YELAHANKA DIVISION
Bruhat Bangalore Mahanagara Palike
Bangalore

Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Construction of CC drains and Development works in ward no 01 & 02 of Yelahanka Sub Division

1 Construction of CC drains and Development works in ward no 01
2 Construction of CC drains and Development works in ward no 02

Quantity Abstract (Estimate Wise)

Sl No	Description of Item	Unit	Ward 01	Ward 02	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2			
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.	Cum	1826.10	2624.23	4450.33	215.28	958067.25
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications.	Cum	270.24	416.39	686.63	5505.64	3780337.59
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.	Cum	637.92	846.67	1484.59	5998.54	8905395.05
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons.	Sqm	5124.00	6347.40	11471.40	379.48	4353166.87

Sl No	Description of Item	Unit	Ward 01	Ward 02	Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2			
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Tn		52.30	**52.30**	**73992.24**	**3869595.85**
6	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Tn	39.04		**39.04**	**72326.98**	**2823558.51**
7	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	1486.80	2262.75	**3749.55**	**2337.00**	**8762696.95**
8	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	96.40	175.20	**271.60**	**5418.00**	**1471528.80**
9	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.	Cum	2966.15	535.35	**3501.50**	**63.94**	**223885.91**
10	KSRRB 300-35: Compaction of original ground by mechanical means including filling in depression occurring curing roling inciuding cost of all labour, HOM of machinery complete as per specificatation.	Sqm	8474.70		**8474.70**	**6.36**	**53899.09**
11	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.	Sqm		2981.00	**2981.00**	**41.34**	**123234.54**

Sl No	Description of Item	Unit	Ward 01	Ward 02	Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2			
12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.	Cum	1271.21	267.68	**1538.89**	**1994.92**	**3069955.49**
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum	1271.21	953.10	**2224.31**	**2001.28**	**4451458.49**
14	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.	Sqm	8454.70	4765.50	**13220.20**	**29.68**	**392375.54**
15	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.	Sqm	9472.20	5176.00	**14648.20**	**12.72**	**186325.08**
16	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision. - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	473.61	238.28	**711.89**	**6858.20**	**4882286.74**
17	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. - do - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen	Cum	348.47	161.63	**510.10**	**7911.84**	**4035840.76**

Sl No	Description of Item	Unit	Ward 01	Ward 02	Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2			
18	*KSRRB MS00-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface:* Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm	358.25		358.25	454.74	162910.61
19	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm		201.85	201.85	580.71	117216.31
						Construction Cost	52623735
						12% GST	6314848
						DPR & PMC Charges	1061000
						Sub Total	59999584
						Miscellaneous	416
						Grand Total	60000000

Administrative Sanction for Rs 600.00 lakhs
Six Crores only
is accorded under head P-3158
adagan Ithanige grants 2019-20
Regd/Speed Post No ..... Subject
Instructions contained in enclosed memo
No EE/YHK/AS/97/2019-20 Dt 7.3.2020
Executive Engineer

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019

Asst. Engineer-1
Ward No-01
Yelahanka Sub Division

Assistant Engineer - 2
Yelahanka Division
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore